Fix Ripped off Solder Pads on Flight Controller

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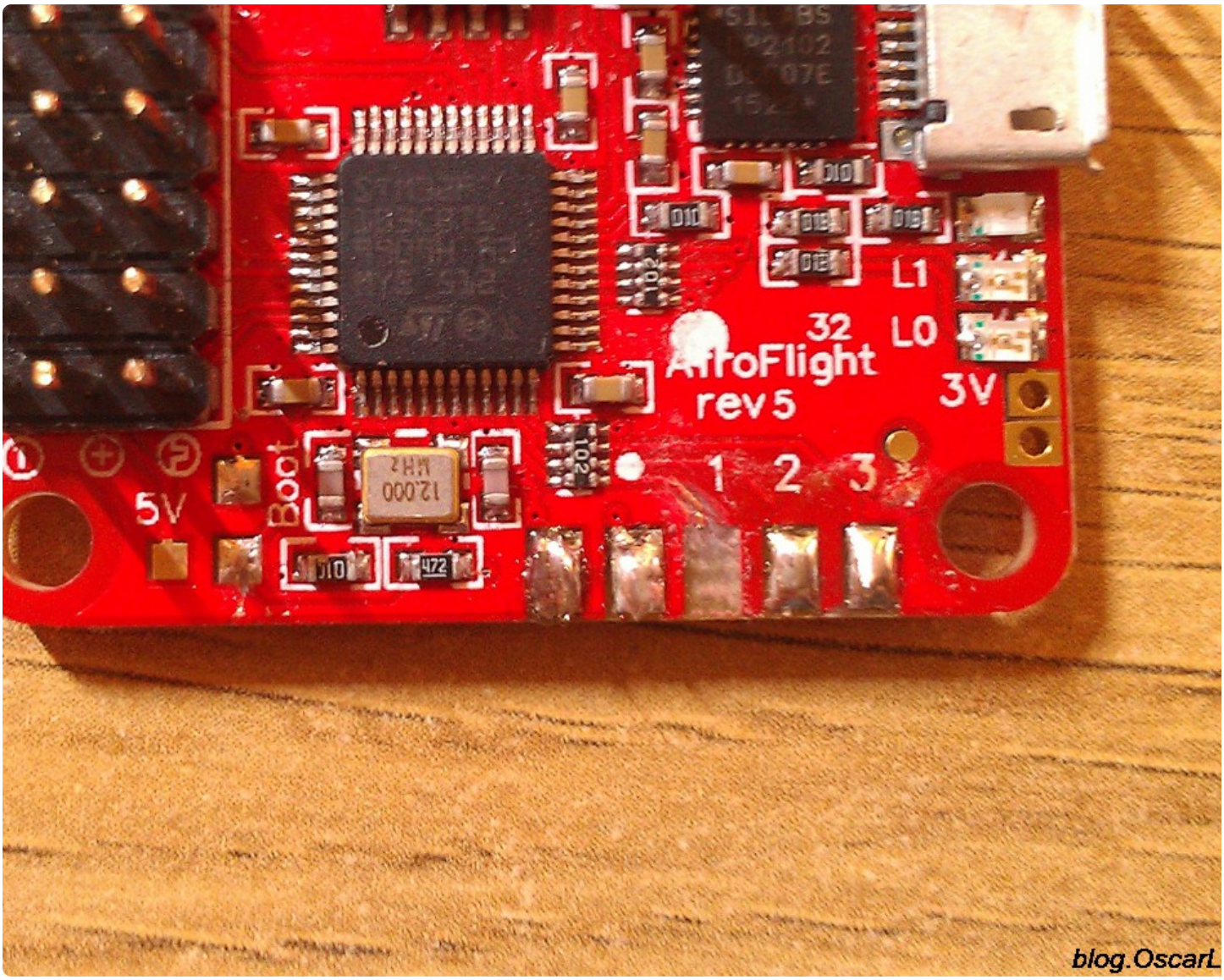

...ensuring when you rip off the solder pad/copper off a flight controller (or PCB)? Fear not, you n...

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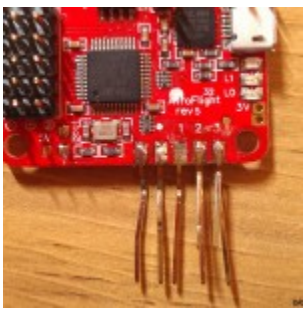
I pulled the RC1 and Radio 5V solder pads off my brand new Naze32 board when I was removing the soldered pins. As I primarily run PPM, and it's currently not possible to do PPM apart from RC1 pin (as know), it pretty much means I had to run PWM, or ditch the board and get a new one. (because I am u UART2 on RC3 and RC4 pins)



In fact the RC pins are all very important for the Naze board, they all have their own jobs, and not ngeable at the moment:

- RC5/6 – SoftSerial 1
- RC7/8 – SoftSerial 2

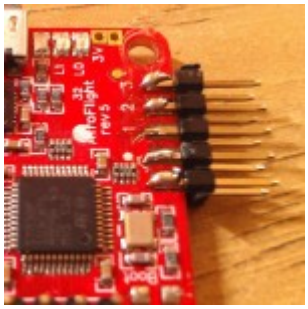
How to avoid pulling off PCB Solder Pads

Don’t apply too much heat on solder pads for too long, and don’t apply ANY force to them while solder soldering.

Fix Ripped off Copper Solder Pads

Luckily enough I was able to repair mine! Although I don’t know how reliable it is going to be, at least it to work for now.

1. You can repair this by using a knife to scrape and expose the trace for that pin/solder pad
2. put solder flux on the trace, and tin it. Clean and remove excessive flux
3. finally solder a tiny piece of tinned tiny wire (30 awg or 28 awg) to connect the trace to a header p something. i didn’t even use a wire, I just push the header pin right in, as close to the trace as pos and solder them together. (See RC1 pad, and 5V Pad)



ADVANCED FLIGHT CONTROLLER NAZE32

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7 COMMENTS

BETTY HUNT

16th October 2019 - 11:22 am

Very helpful information!

BULL FPV SHANNON

6th March 2019 - 7:40 pm

Kew i was wondering if scraping trace would work. I just had my diatone mamba minis rx signalwire pad break loose right before her maiden. Its on the corner next to standoff bolt s hopin the trace is big enuff

TOM

4th November 2016 - 5:24 pm

I have prob destroyed 5 micro minimosd trying to solder the pins on. Very poor design. At le

31st May 2016 - 5:05 pm

Same here. vid out. cant see where it goes to. and help please

TOM W,

29th September 2015 - 12:59 pm

Hi Oscar

I had the video out pin solder pad pull off of a micro minim OSD module when I tried to solc connector pin to it

You can purchase some conductive glue to repair the pad as long as you can identify wher trace made contact with the

pad. Two ounces for $1.50 on E-bay.

KEN

12th October 2015 - 4:49 am

Thanks both soloution works well.

NESTOR

16th April 2016 - 4:58 am

Hi Tom,

We’re you able to figure out where the pad made contact to the video out pin? Tha pad came off my micro minim osd as well :/